

FIG. 2

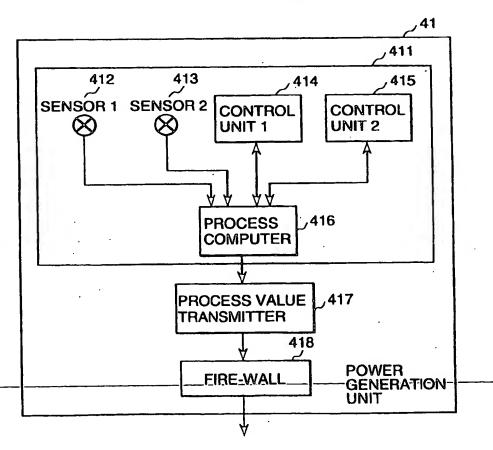


FIG. 3

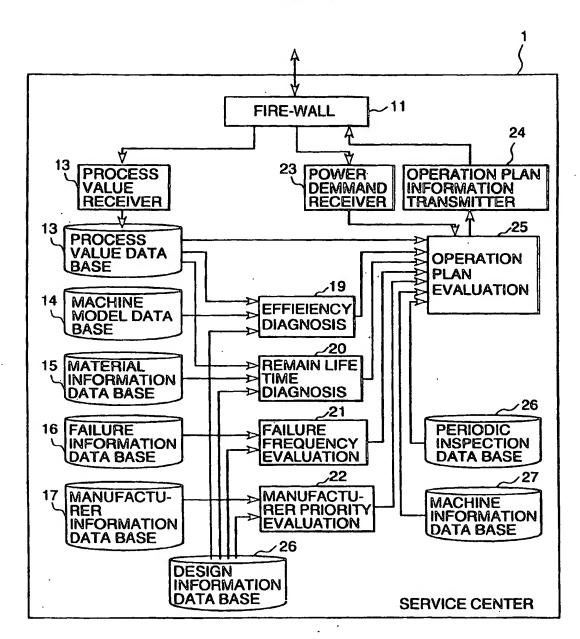


FIG. 4

### PROCESS VALUE DATA BASE

					JAGE							
POWER PLANT	UNIT	PRO No.	OCESS	PR	PROCESS VALUE							
I CAIVI			TIME	12:00:20	12:00:19	12:00:18	•••					
		Pi	D001	100.0	99.0	99.5						
201452			D002	120.0	119.0	118.0						
POWER PLANT A	UNIT 1	PI	D003	100.0	100.0	100.0						
			:									
	UNIT 2			·								

### FIG. 5

#### DESIGN INFORMATION DATA BASE

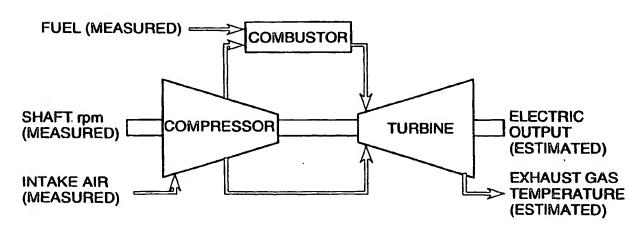
		DEGICIA HAI OHMATIOIA DAT	A DAGE
POWER PLANT	UNIT	MACHINE (MANUFATURER/TYPE)	PARTS (MANUFACTURER/TYPE)
POWER PLANT A	UNIT 1	GAS TURBINE(A Co./GT001)	COMBUSTOR(B Co./CB003)
			TURBINE(A Co./TB001)
			COMPRESSOR(A Co./CP001)
		GENERATOR(B Co./GN005)	
			:

FIG. 6

PART	MANUFATURER/ TYPE	MACHINE MODEL	INPUT OUTPUT SPECIFICATION
COMPRESSOR	A Co./CP001	MODEL CP001	INPUT:PID010,PID015, · · OUTPUT:PID030,PID035, · ·
	B Co/CP001	MODEL CP003	
	:		
TURBINE	A Co./ TB001		

FIG. 7

#### **MACHINE MODEL**



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FIG. 8

## PERFORMANCE DETERIORATION JUDGEMENT MAKING USE OF MACHINE MODEL

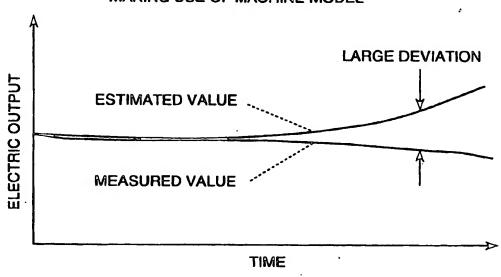
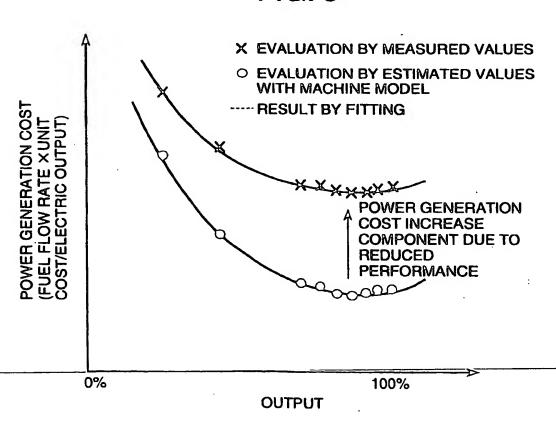


FIG. 9



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FIG. 10

### PERIODIC INSPECTION INFORMATION DATA BASE

							19	99	)	_			•						20	00	)				
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
AF	PLANT																								
	UNIT 1			ζ													5								
	UNIT 2																								
BP	PLANT																								
·	UNIT 1																	Z	5						
	UNIT 2																							d	
	i.																								
FINISHED PLANNED																									

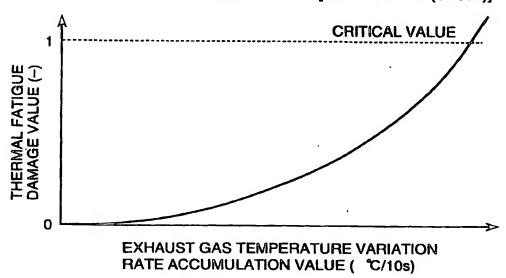
### FIG. 11

### MACHINE INFORMATION DATA BASE

MACHINE/ PARTS	MANUFACTURER/ TYPE	PURCHASED PRICE	DAYS FOR INSTALLATION
GAS TURBINE	A Co./GT001	20000M	10 DAY
	B Co./GT003	16000M	14 DAY
	C Co./GT001	24000M	8 DAY
	:	:	:
:	:	:	

FIG. 12

# STRUCTURE OF MATERIAL INFORMATION DATA BASE THERMAL FATIGUE DAMAGE DATA [GAS TURBINE (GT001)]



#### **CREEP DAMAGE DATA [GAS TURBINE (GT001)]**

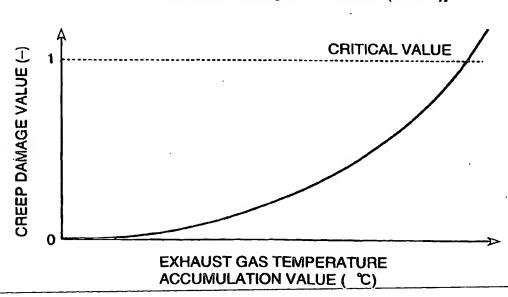


FIG. 13

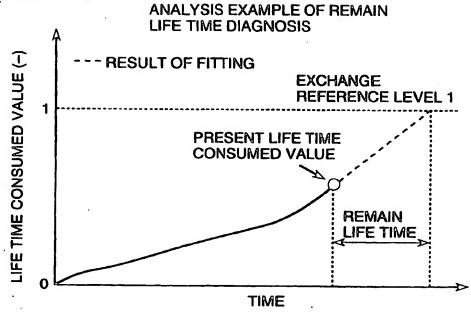


FIG. 15

**FAILURE INFORMATION DATA BASE** 

DATE OF FAILURE OCCURRED	PLANT	UNIT	PARTS (MANUFACTURER/ TYPE)	DATE OF PREVIOUS REPAIR, EXCHANGE	CAUSE OF FAILURE
2000.9.10	PLANT A	UNIT 1	VALVE (A Co./VL0010)	1992.3.20	PACKING DETERIO- RATION
1998.6.5	PLANT B	UNIT 2	PUMP (B Co./PU032)	1990.4.1	COUPLING BREAKAGE
i	:	:	:	:	÷
'					

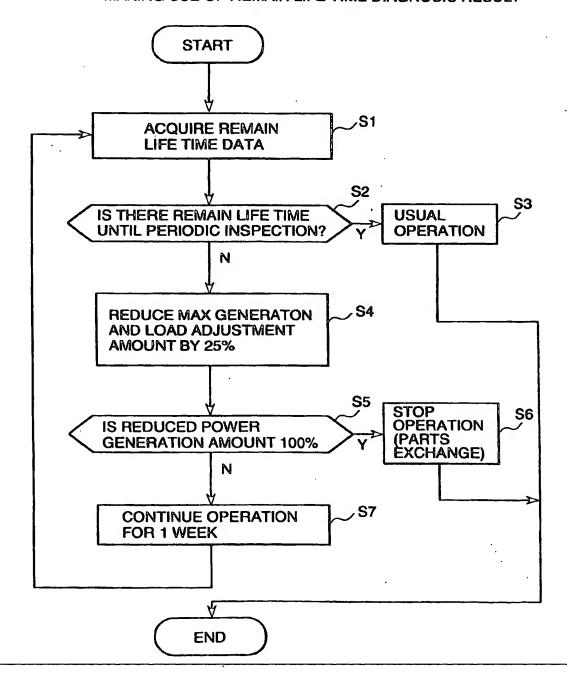
FIG. 16

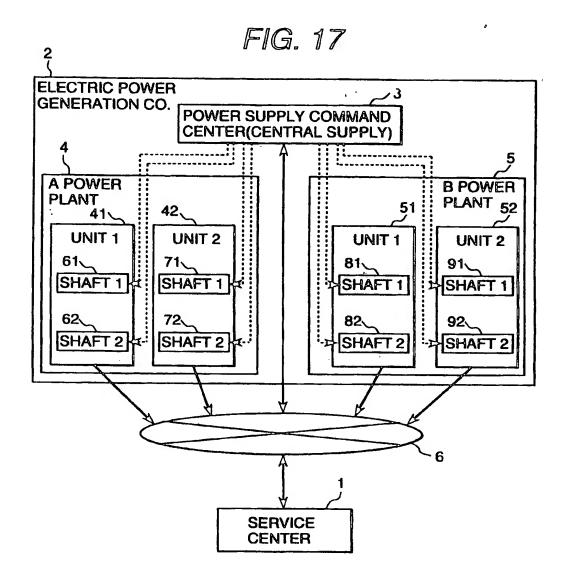
#### MANUFACTURER INFORMATION DATA BASE

MANUFACTURER	RELIABILITY	MAINTENANCE CAPACITY
A Co.	Α	Α
B Co.	Α	В
——С <sup>.</sup> Со.	В	В
	:	:

FIG. 14

## FLOW OF OPERATION AND MAINTENANCE PLANNING MAKING USE OF REMAIN LIFE TIME DIAGNOSIS RESULT





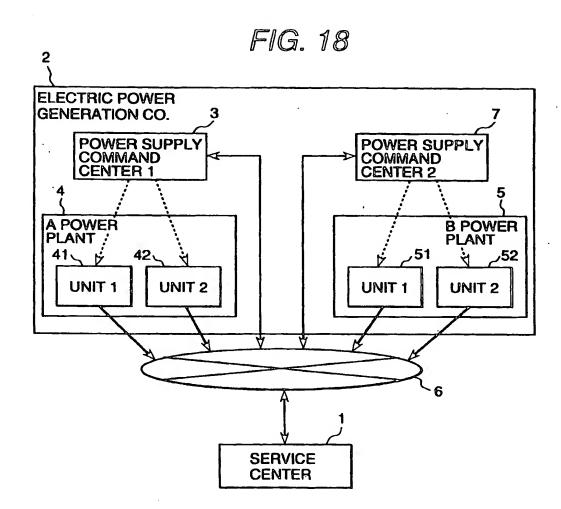


FIG. 19

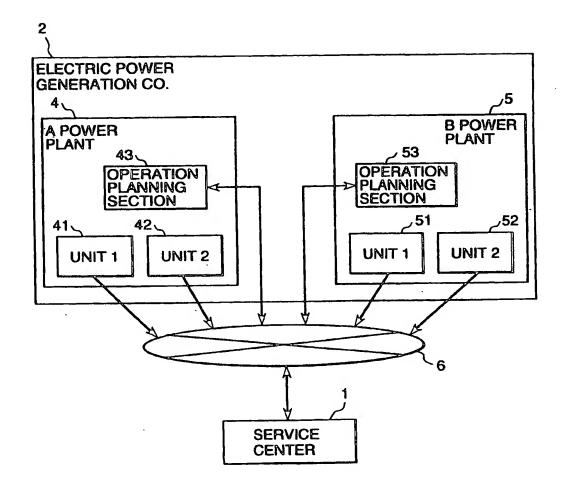
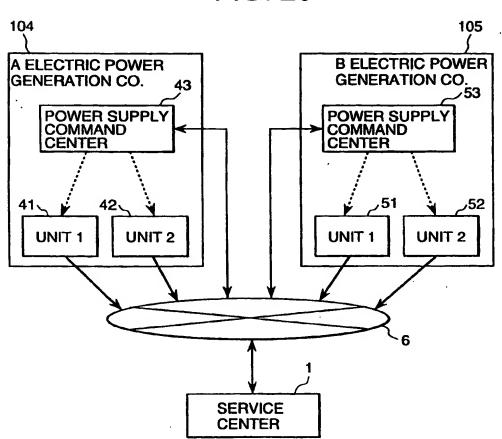


FIG. 20



## FIG. 21

#### PROCESS VALUE DATA BASE

POWER GENERATION	UNIT	PRO No.	OCESS	PROCESS VALUE							
Co.			TIME	12:00:20	12:00:19	12:00:18	•••				
		PI	D001	100.0	99.0	99.5					
		Pi	D002	120.0	119.0	118.0					
A POWER GENERATION	UNIT 1	UNIT 1	PI	D003	100.0	100.0	100.0				
Co.			:								
	UNIT 2										

## FIG. 22

#### **DESIGN INFORMATION DATA BASE**

POWER GENERATION Co.	UNIT	MACHINE (MANUFATURER/TYPE)	PARTS (MANUFACTURER/TYPE)
	UNIT 1	GAS TURBINE(A Co./GT001)	COMBUSTOR(B Co./CB003)
			TURBINE(A Co./TB001)
A POWER	Ì		COMPRESSOR(A Co./CP001)
GENERATION Co.		GENERATOR(B Co./GN005)	
			:

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FIG. 23

#### PERIODIC INSPECTION INFORMATION DATA BASE

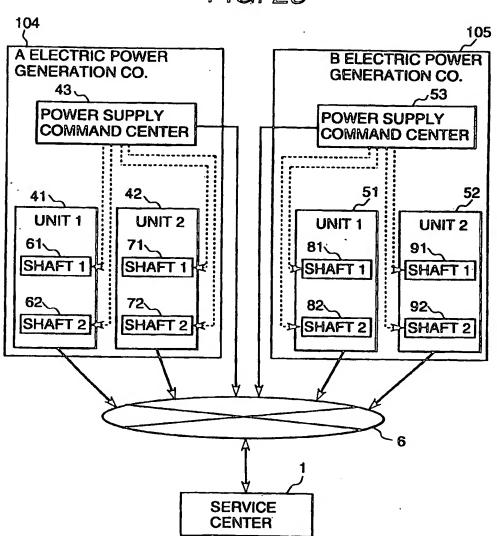
	<del></del>						19	99							_				20	00					
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
GEN	OWER JERATION																								
Co.	UNIT 1																֡֡֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֡֓֓֓֡֓֓֓֡֡֡֝ <del>֡֡֡֡֡֡֡֡</del>								
	UNIT 2																								
GEN	OWER VERATION																								
Co.	UNIT 1						5												}_						
	UNIT 2																								
	<b>:</b>																								
<u> </u>	FINISHED PLANNED																								

### FIG. 24

#### **FAILURE INFORMATION DATA BASE**

	POWER GENERATION Co.	UNIT	PARTS (MANUFACTURER/ TYPE)	DATE OF PREVIOUS REPAIR, EXCHANGE	CAUSE OF FAILURE
2000.9.10	A POWER GENERATION Co.	UNIT 1	VALVE (A Co./VL0010)	1992.3.20	PACKING DATRERIO- RATION
1998.6.5	B POWER GENERATION Co.	UNIT 2	PUMP (B Co./PU032)	1990.4.1	COUPLING BREAKAGE
:	:	:	:	÷	:

FIG. 25



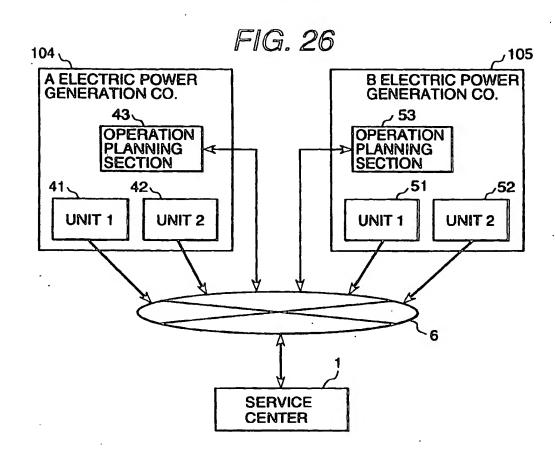


FIG. 27(a)

FIG. 27(b)

